

Riello UPS introduces the innovative Sentryum series: Triple sentry to secure your power!

*Three frame solutions for maximum flexibility, transformer-free,
unity output power factor and ON LINE double conversion technology.
Available in 10-15-20 kVA/kW.*

Legnago, 11/09/2019. Riello UPS, brand of the Riello Elettronica group, a global player in the production of static uninterruptible power supplies, photovoltaic inverters and Energy Storage systems, introduces its new **Sentryum range**, the third generation of its transformer-free UPS which was originally introduced into the market more than twenty years ago.

The Sentryum series is available in 10-15-20 kVA/kW models with three-phase/single-phase input and singlephase output, and 10-15-20 kVA/kW models with three-phase input and output.

It provides a rapid response to all load variations and ensures an outstanding sinewave form during all conditions thanks to a unique control system which reduces the inverter output harmonic voltage distortion (<1 % at resistive load and < 1.5% at non linear load).

Thanks to the use of advanced technologies such as DSP (Digital Signal Processor), dual-core microprocessors, three-level inverter circuits and resonant control, the Sentryum guarantees optimised energy savings and provide maximum protection to all critical loads with no impact on downstream systems.

Maximum flexibility and variety of solutions offered make it ideal for any type of critical application, from Data Centres to the medical area, industry, transport and emergency systems.



Extensive range of solutions with compact designs

Riello UPS offers Sentryum in three different frame size to satisfy any critical power demand and application:

Compact: offers unmatched power - up to 20 kVA at unity power factor - and autonomy - 12 minute of backup time at typical load - in an extremely reduced space (< 0.25 square metres and only 0.17 m³).

Active: is extremely compact (< 0.35 square metres and only 0.33 m³) but exceptionally powerful. It's possible to deliver up to 20 kVA at unity power factor and build one or two levels of internal battery backup time.

Xtend: in an extremely small footprint (< 0.4 square metres and < 0.5 m³), it is possible to build up to three levels of battery backup time. In addition, it is possible to install an isolation transformer or easily change the degree of protection.

High efficiency

Thanks to the three-level IGBT inverter topology and innovative digital controls, the Sentryum delivers up to 96.5% overall efficiency in ON LINE mode. It provides the very highest levels of power availability without any de-rating. Combining flexibility and unrivalled energy efficiency with superior performance, all with zero impact on the power source, it is an ideal solution for any small Data Centre or mission critical-applications.

High power availability

The Sentryum has been designed to offer full power (kVA=kW) up to an ambient temperature of 40 °C and it delivers up to 250% inverter current for 200ms and 150% for 300ms. The high overcurrent availability enables the system to deal with sudden peak loads without static bypass intervention and provide short circuit current if required during operation on battery.

Maximum reliability and availability

Up to eight Sentryum units can be configured in parallel for increased capacity or redundancy. Advanced technology and the use of high performance components, enables the Sentryum to provide exceptional performance:

- the smallest overall footprint
- input power factor close to 1 with extremely low current distortion
- unity output power factor that makes it suitable for any Data Centre application, ensuring full power availability without downgrading
- extremely low output THDV under any circumstances
- more active power than a traditional UPS, guaranteeing a greater margin when sizing UPS for potential future load increases
- manages the fan speed and airflow in accordance with the room temperature and load level, to preserve fan lifespan and reduce the noise level.

Flexibility

The Sentryum incorporates a wide range of user-friendly features, including:

- operating modes: ON LINE, ECO, SMART ACTIVE and STANDBY OFF
- frequency converter mode
- Cold Start function enables the UPS to switch on even when there is no mains power supply
- compatibility with alternative backup energy sources (eg. Li-ion batteries, supercapacitors)
- high power battery charger to optimize charging times in case of long runtimes
- double incoming mains power supply

Advanced communications

The Sentryum is equipped with a large coloured graphic touch screen display providing UPS information, measurements, operating states and alarms in different languages. The default screen displays the UPS status, graphical indication of the energy path through the UPS and the operational condition of the various components (rectifier, batteries, inverter, bypass) within the UPS. Furthermore, the user interface includes a UPS status led bar which immediately delivers clear information regarding the overall status of the UPS by changing the colour (light blue, dark blue, yellow and red) according to the operating mode and condition.



Information about Riello UPS

Riello UPS is the brand of uninterruptible power supplies for Data Centres, offices, electromedical environments, security and emergency equipment, industrial complexes and communication systems, designed and produced by RPS SpA, a company based in Italy and part of the Riello Elettronica Group. With the Riello UPS brand, RPS S.p.A. is the industry leader in Italy and firmly placed among the top 5 companies in the world in technological research, production, sales and assistance. The pursuit of quality, the optimization of resources and a strong push towards technological innovation, together with seriousness, consistency and experience, make RPS S.p.A. a company able to meet the needs of a booming market. RPS S.p.A. has two production sites in Italy, sixteen subsidiaries in Europe, the United States, the United Arab Emirates, China, India, Singapore, and Australia, and a presence in over 80 countries worldwide that offers a very high level of customer service.

For additional information about the company and its products visit www.riello-ups.com

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